

Work Order ID 163834

163834

Page 1

Monday, July 10, 2017 11:57:14 AM

Item ID: D212-580-043 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Led Pulse Light
 Start Date: 7/18/2017 Start Qty: 2.00 *2* Cust Item ID:
 Required Date: 7/27/2017 Req'd Qty: 2.00 *2* Customer:
 Reference:

Approvals: Process Plan: W Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D212-580-2	D								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPPD212-580-043 CHG001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.03							
120									
QC	Memo	0.06							
Quality Control									

AUG 14 2017
 DAS 6
 9-89

2 DAS 27
 9-89
 7/18/15
 2 AUG 14 2017
 DAS 28
 9-89

2 DAS 27
 9-89
 7/18/15

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Work Order ID 163834

Monday, July 10, 2017 11:57:14 AM

163834

Page 2

Item ID: D212-580-043

Accept

N900040100Setup Start ***NS1***

Revision ID:

Item Name: Led Pulse Light

Stop ***NS2***

Start Date: 7/18/2017 Start Qty: 2.00

2

Cust Item ID:

Required Date: 7/27/2017 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Pick Kit	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPPD212-580-043 Location:FG018								
140	QC21- Final Inspection - Work Order Release	0.10							
140									
QC	Memo	0.20							
Quality Control									

2 DAS
27
9-89
M/8/15DAS
21
9-89

AUG 15 2017

DAS
21
9-89

AUG 15 2017

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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OTHER : ☐																									

Picklist Print

Monday, July 10, 2017 11:57:11 AM

Work Order ID: 163834

163834

Parent Item: D212-580-043

D212-580-043

Parent Item Name: Led Pulse Light

Start Date: 7/18/2017

Required Date: 7/27/2017

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A NEW ISSUE 10-05-11 JLM VERIFIED BY:DD IPP
rev:B 10.10.12 AS PER ECN10-618 DD VRF:JLM IPP rev:C
10.11.22 AS PER ECN10-642 DD VRF:JLM IPP rev:D 10.12.16
AS PER ECN10-658 DD VRF:EC IPP rev:E 11.03.31 added
D4377-1 DD VRF:EC IPP REV:F 12.02.24 as per DSI9596
rev a DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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1-206062-4		Purchased	No			110	Each	19.0000	4	8			
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1-206062-4

Contacts, Sockets (P1000)

**

AUG 15 2017

Location	Loc Qty	Loc Code
st574	9	
m136295	9	
ST576	10	
m137475	10	

DAS
27
9-89

DAS
28
9-89

1210/2405-2A		Purchased	No			110	Each	9.0000	1	2			
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1210/2405-2A

PULSE LIGHT MODULE

**

AUG 15 2017

Location	Loc Qty	Loc Code
ST540	9	
154424	3	
159121	5	
161617	1	

DAS
27
9-89

DAS
28
9-89

205838-1		Purchased	No			110	Each	10.0000	1	2			
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205838-1

CONNECTOR, PLUG (P3)

**

AUG 15 2017

Location	Loc Qty	Loc Code
ST576	10	
M137113	4	
M137475	6	

DAS
27
9-89

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
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Work Order ID: 163834

163834

Parent Item: D212-580-043

D212-580-043

Parent Item Name: Led Pulse Light

Start Date: 7/18/2017

Required Date: 7/27/2017

Start Qty: 2.00

Required Qty: 2.00

206458-1 Purchased No

110 Each 7.0000 1 2

206458-1

FEED-THRU-RECEPTACLE (J2/J3)

**

AUG 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST576

7

M135532

2

M137370

5

2

206460-1 Purchased No

110 Each 9.0000 1 2

206460-1

CONNECTOR, PLUG (P2)

**

AUG 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST576

9

M136837

9

2

206485-1 Purchased No

110 Each 10.0000 1 2

206485-1

CONNECTOR, PLUG (J1000)

**

AUG 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST576

10

M134712

2

M135529

2

M135998

6

2

206486-2 Purchased No

110 Each 12.0000 1 2

206486-2

Connector, Socket (J1000)

**

AUG 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST576

12

m135529

1

m135998

11

1

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Picklist Print

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Page 3

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163834

Parent Item: D212-580-043

D212-580-043

Parent Item Name: Led Pulse Light

Start Date: 7/18/2017

Required Date: 7/27/2017

Start Qty: 2.00

Required Qty: 2.00

AN3-7A

Purchased

No

110

Each

229.0000

4

8

AN3-7A

Bolt

DAS
27
9-89

**

AUG 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST349

229

m137164

229

8

AN4-17A

Purchased

No

110

Each

233.0000

2

4

AN4-17A

Bolt

**

AUG 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

150

M137073

100

M137699

50

4

ST343

83

M137371

83

AN525-832R10

Purchased

No

110

Each

4.0000

4

8

AN525-832R10

SCREW

**

AUG 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST328

4

m134754

4

m137988 X

8

D4078-1

Manufactured

No

110

Each

22.0000

2

4

D4078-1

Clamp Half

**

AUG 14 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST074

22

153802

2

158884

20

2

2

DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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OTHER : _____																																																																							

Picklist Print

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Page 4

Work Order ID: 163834

163834

Parent Item: D212-580-043

D212-580-043

Parent Item Name: Led Pulse Light

Start Date: 7/18/2017

Required Date: 7/27/2017

Start Qty: 2.00

Required Qty: 2.00

D4079-1 Manufactured No

110 Each 26.0000 2 4

D4079-1

Clamp Half, Attachment

**

AUG 14 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST0744

26

153837

6

158889

20

4

D4081-1 Manufactured No

110 Each 23.0000 2 4

D4081-1

Bushing

**

AUG 14 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST074

23

145591

3

156901

20

3

D4377-1 Manufactured No

110 Each 8.0000 1 2

D4377-1

Placard

**

AUG 14 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST095

8

150076

2

160139

6

9/7/2017

5/19/2018

2

EWLA1000DBDS0W Purchased No

110 Each 8.0000 2 4

FWI A1000DBDS0W

LED Light

**

AUG 14 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST540

8

156739

8

4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
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Picklist Print

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Page 5

Work Order ID: 163834

163834

Parent Item: D212-580-043

D212-580-043

Parent Item Name: Led Pulse Light

Start Date: 7/18/2017

Required Date: 7/27/2017

Start Qty: 2.00

Required Qty: 2.00

M39029/63-368

Purchased

No

110

Each

91.0000

30

60

M39029/63-368

CONTACTS, SOCKETS (P1000)

**

AUG 14 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST566

91

M137192

91

60

M39029/64-369

Purchased

No

110

Each

49.0000

10

20

M39029/64-369

Connector, Pins (J1000)

**

AUG 14 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST566

49

m136909

9

m137192

40

8
12

MS21042L04

Purchased

No

110

Each

145.0000

4

8

MS21042L04

NUT

**

AUG 14 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST303

145

125653

45

m135766

100

8

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By _____		
							Lead hand / Supervisor Approval Verification _____		
							QC / QA Coordinator Approval _____		

Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : 						
Misidentified	☐	Past Due	☐							

Picklist Print

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Work Order ID: 163834

163834

Parent Item: D212-580-043

D212-580-043

Parent Item Name: Led Pulse Light

Start Date: 7/18/2017

Required Date: 7/27/2017

Start Qty: 2.00

Required Qty: 2.00

MS21042L08

Purchased

No

110

Each

902.0000

4

8

MS21042I 08

**

Nut

Location

Loc Qty

Loc Code

GA	100
m135274	6
m135978	94
ST303	802
m137391	150
m137464	102
m137736	250
m137851	100
m137951	200

AUG 14 2017

DAS
28
9-89

DAS
27
9-89

M138045
~~M137736~~ x 8

MS21042L3

Purchased

No

110

Each

1,273.000

7

14

MS21042I 3

**

Nut

Location

Loc Qty

Loc Code

FP001	79
m135945	79
GA	394
m134360	102
M136665	292
ST303	800
m137680	300
m137886	500

AUG 14 2017

DAS
28
9-89

DAS
27
9-89

M137988 *14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER :									

Picklist Print

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Page 7

Work Order ID: 163834

Parent Item: D212-580-043

Parent Item Name: Led Pulse Light

163834

D212-580-043

Start Date: 7/18/2017

Required Date: 7/27/2017

Start Qty: 2.00

Required Qty: 2.00

MS21042L4

Purchased

No

110

Each

1,666.000

2

4

MS21042L 4

Nut

**

AUG 14 2017

Location

Loc Qty

Loc Code

FP001

10

m133363

10

GA

51

m135058

51

OVER007

1000

m137680

1000

ST303

605

m137402

400

m137544

205

M137988 4

DAS
27
9-89

MS22073-3

Purchased

No

110

Each

4.0000

1

2

MS22073-3

CIRCUIT BREAKER

**

AUG 14 2017

Location

Loc Qty

Loc Code

ST290

4

m136835

4

MS24524-21

Purchased

No

110

Each

1.0000

1

2

MS24524-21

SWITCH (ON-OFF-ON)

**

AUG 14 2017

Location

Loc Qty

Loc Code

ST290

1

m136909

1

MS26574-3

Purchased

No

110

Each

0.0000

1

2

MS26574-3

CIRCUIT BREAKER

**

AUG 14 2017

St281

M138165 2

DAS
27
9-89

Monday, July 10, 2017 11:57:12 AM

Shop Packet Print

Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

Picklist Print

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Page 8

Work Order ID: 163834

163834

Parent Item: D212-580-043

D212-580-043

Parent Item Name: Led Pulse Light

Start Date: 7/18/2017

Required Date: 7/27/2017

Start Qty: 2.00

Required Qty: 2.00

MS35206-217

Purchased

No

110

Each

872.0000

4

8

MS35206-217

SCREW

**

AUG 14 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

ST272

872

m133799

872

8

NAS1149D0363J

Purchased

No

110

Each

1,412.000

8

16

NAS1149D0363.J

Washer

**

AUG 14 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

43

m134055

13

m137164

30

ST263

1369

m137587

369

m137963

1000

16

NAS1149D0463J

Purchased

No

110

Each

2,881.000

4

8

NAS1149D0463.J

Washer

**

AUG 14 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

640

M135056

40

M137699

600

ST260a

1400

M137699

1400

ST263

841

M137371

841

m138084 8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

Picklist Print

Monday, July 10, 2017 11:57:12 AM

Page 9

Work Order ID: 163834

163834

Parent Item: D212-580-043

D212-580-043

Parent Item Name: Led Pulse Light

Start Date: 7/18/2017

Required Date: 7/27/2017

Start Qty: 2.00

Required Qty: 2.00

NAS1149DN432J

Purchased

No

110

Each

70.0000

8

16

NAS1149DN432.J

WASHER

**

AUG 14 2017

DAS 28

9-89

Location

Loc Qty

Loc Code

ST265

70

m129682

70

NAS1149DN816J

Purchased

No

110

Each

40.0000

8

16

NAS1149DN816.J

WASHER

**

AUG 14 2017

DAS 28

9-89

Location

Loc Qty

Loc Code

ST264

40

m128057

40

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	OTHER : _____							
Misidentified ☐	☐	Past Due								

7.0 PARTS LIST

Qty	Part Number	Description
X	D212-580-043	LED Pulse Light Kit
2	EWLA1000DBDS0W	LED Light
2	D4078-1	Clamp Half
2	D4079-1	Clamp Half, Attachment
2	D4081-1	Bushing
1	MS26574-3	Circuit Breaker
1	MS22073-3	Circuit Breaker
1	MS24524-21	Switch (On-Off-On)
1	1210/2405-2A	Pulse Light Module
1	206486-2	Connector, Socket (J1)
1	206485-1	Connector, Plug (P1)
1	206458-1	Feed-thru, Receptacle (J2/J3)
1	206460-1	Connector, Plug (P2)
1	205838-1	Connector, Plug (P3)
10	M39029/64-369	Contacts, Pins (J1)
30	M39029/63-368	Contacts, Sockets (P1/P2/P3)
4	1-206062-4	Connector Backshell
2	AN4-17A	Bolt
4	AN3-7A	Bolt
2	MS21042L4	Nut
7	MS21042L3	Nut
4	NAS1149D0463J	Washer
8	NAS1149D0363J	Washer
4	AN525-832R10	Screw
4	MS21042L08	Nut
8	NAS1149DN816J	Washer
4	MS35206-217	Screw
4	MS21042L04	Nut
8	NAS1149DN432J	Washer
1	D4377-1	Placard

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Revision: D

Date: 12.06.13

Work Order ID 163834***163834***

Page 1

Item ID: D212-580-043

Accept

N900040100Setup Start ***NS1***

Revision ID:

Item Name: Led Pulse Light

Stop ***NS2***

Start Date: 7/18/2017 Start Qty: 2.00

2

Cust Item ID:

Required Date: 7/27/2017 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

IIN-D212-580-2

D

AUG 14 2017

100

Document Control

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPPD212-580-043 CHG001

DAS
5
9-89

2 AUG 15 2017

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.03

120

QC

Memo

0.06

Quality Control



Department of Transport

Supplemental Type Certificate

This approval is issued to:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ontario
Canada K6A 1K7

Number: SH92-16

Issue No.: 4

Approval Date: April 29, 1992

Issue Date: September 03, 2010

Responsible Office:

Prairie and Northern

Aircraft/Engine Type or Model:

BELL 204B, 205A-1, 205B, 212, 214B, 214B-1, 412, 412 CF, 412 EP

Canadian Type Certificate or Equivalent:

BELL 205B H-104
BELL 214B, 214B-1 H-80
BELL 212, 412, 412 CF, 412 EP H-86
BELL 204B, 205A-1 H1SW

Description of Type Design Change:

Cargo Mirror and Pulse Light Installation

**Installation/Operating Data,
Required Equipment and Limitations:**

Manufacture of the Cargo Mirror and Pulse Light Kits must be in accordance with Transport Canada approved Dart Aerospace Ltd. Master Document List MDL-D212-580, Revision D, dated 2010-08-13, or later approved revision.

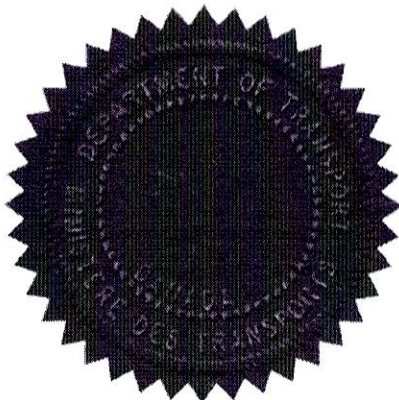
Installation of the Cargo Mirror and Pulse Light Kits must be in accordance with Transport Canada approved Dart Aerospace Ltd. Installation Instructions IIN-D212-580, Revision D, dated 2010-02-08, or later approved revision.

Maintenance of the Cargo Mirror and Pulse Light Kits must be in accordance with Transport Canada accepted Dart Aerospace Ltd. Instructions for Continued Airworthiness ICA-D212-580, Revision 2, dated 2010-07-20, or later Transport Canada accepted revision.

Basis of Certification:

FAR 29, up to and including Amendment 29-51 for affected areas.

- End -



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.


Greg Oucharek
For Minister of Transport

Canada